

Physical and Chemical Changes

1. Fill in the blanks

- A. A change in which a substance undergoes a change in its _____ is called a physical change.
- B. Ash of magnesium when dissolved in water makes _____.
- C. When an iron blade is kept in copper sulphate solution, color of solution turns from _____ to _____.
- D. When carbon dioxide is passed through lime water, _____ is formed.
- E. The process which leads to chemical change of one substance to another is called _____.

2. True or false

- A. In physical change a new substance is formed.
- B. In chemical change a new substance is formed.
- C. Copper articles get coated with green substances on exposure to moist air.
- D. Condensation of steam is not a chemical change.
- E. When a candle burns, both physical and chemical changes take place.
- F. Setting of curd is a physical change.

3. Matching/Classify below in physical and chemical changes:-

Column A	Column B
I. Photosynthesis	Irreversible process
II. Dissolving sugar in water	Change of state
III. Burning of coal	Chemical change
IV. Melting of wax	Physical change
V. Digestion of food	Large particles convert into smaller components

4. Answer the following questions.

- A. What is physical change? Provide examples
- B. What is chemical change? Provide examples
- C. How is physical change different from chemical change?
- D. What are the four types of chemical reactions? Provide example
- E. What is the standard test of CO_2 ?
- F. What is a chemical equation? Define balancing of chemical equation with an example
- G. Write the chemical formulae of the following:

Aluminum nitrate, Copper sulphate, Iron oxide, Sodium nitrate